



**LifeNet Health**  
**Presented by James Clagett, PhD., Chief Science Officer**

# **LifeNet Health - The Best Keep Secret in Regenerative Medicine**



*LifeNet Health  
Corporate Headquarters  
Virginia Beach, VA*

IN HONOR OF THOSE WHO GIVE UNSELFISHLY AND COURAGEOUSLY SO THAT OTHERS MAY LIVE

# Who is LifeNet Health?

*LifeNet Health helps save lives and restore health for thousands of patients each year.*

*We are the world's most trusted provider of transplant solutions, from organ procurement to new innovations in bio-implant technologies and cellular therapies—a leader in the field of regenerative medicine while always honoring the donors and healthcare professionals that allow the healing process*



# Our Mission



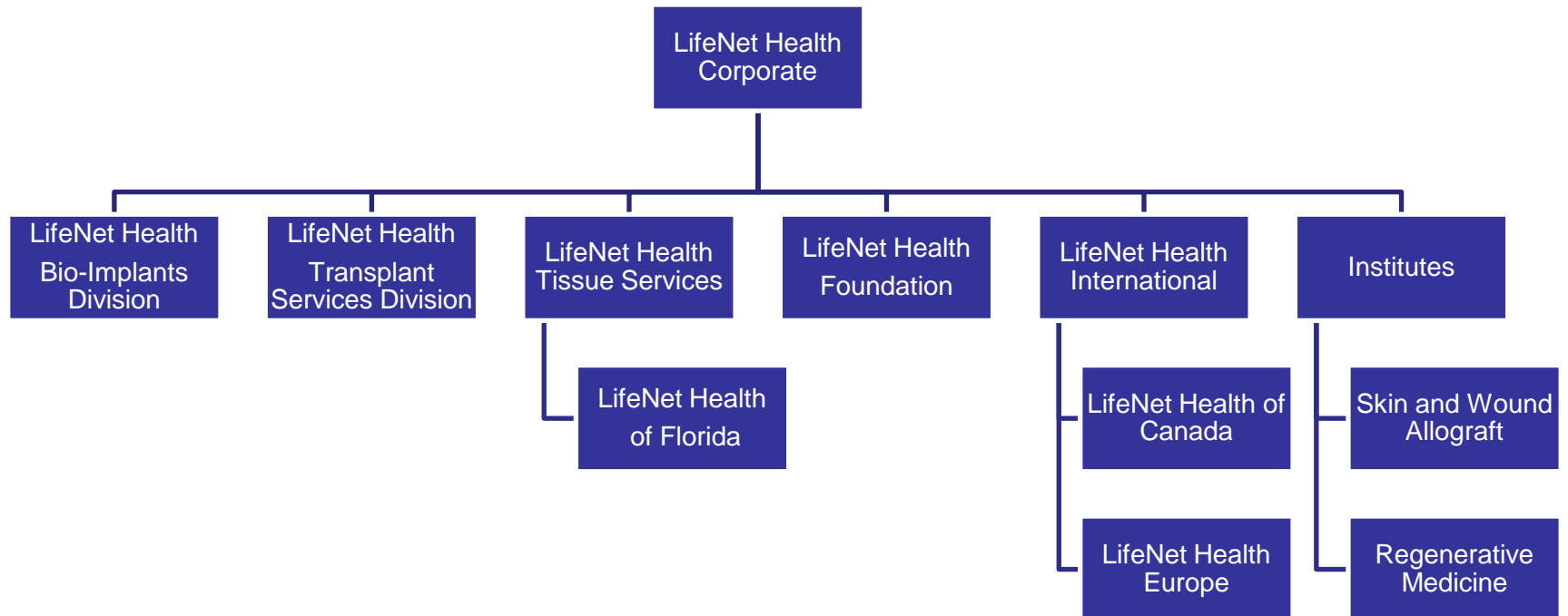
**Saving Lives and Restoring Health**

# The LifeNet Health Entity

- LifeNet Health is an Organ Procurement Organization and a Tissue bank organization
- Facilitate organ donation and procurement for the state of Virginia
- Tissue based Biologic Therapeutics
- LifeNet Health is a highly respected within the transplantation industry
- Not-for-Profit 501 C 3, \$140 MM operation
- Approximately 500 employees in Virginia
- 3 separate facilities in Virginia Beach (over 250,000 sq feet)
- Heavily involved in community education, donor family programs
- Invests heavily in innovation and technology
- Distribute biological implants (spine, cardiovascular, sports medicine, skin) nationally and internationally

Today LifeNet Health enjoys a reputation as an ethical and dynamic organization

# LifeNet Health Divisions and Subsidiaries



# Remarkable results over the years



Over 6,400 Lives Saved



Over 1,900,000 Lives Restored



Over 2.1 million implants without disease transmission



Over 7,100 Family Helped



Over 500 Employees

# Our Attributes

Customer  
Service  
and Care

Quality

Innovation

Talented and  
Dedicated  
Employees

that allow us to provide the highest standards in tissue engineering, donor and transplant services.

# Success of R & D lies in part on the Quality and Experience of our Staff:

- 1 -- Individual with M.D. Degrees
- 2 -- Individual with M.D. , Ph.D. Degrees
- 5 -- Individuals with Ph.D. Degrees
- 4 -- Individuals with Engineering Degrees
- 19 -- Bachelors and/or Masters Degrees

- 48% of all staff have advanced degrees -

Wide range of work experiences:

- Medical device industry
- Diagnostic and pharmaceutical industry
- Academic research and teaching
- Tissue banking
- Entrepreneurial experiences

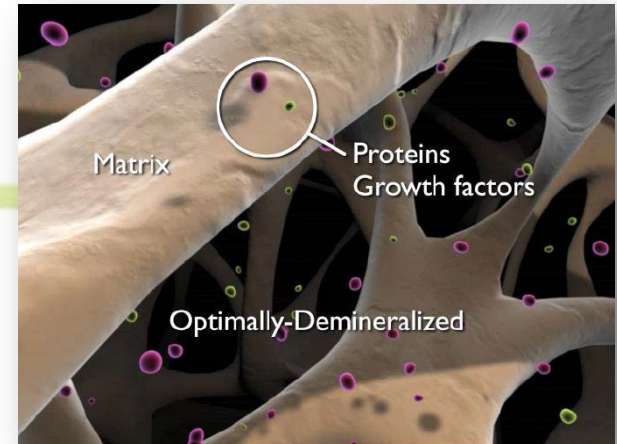
*Big commitment for troubled economy, but necessary for long term survival.*



# Innovation & Intellectual Properties

## Intellectual Property

- Over 40 issued U.S. Patents
- Decellularization
- Plasticized Grafts
- Textured Bone Grafts
- Composite Bone Grafts
- Osteoinductive Bone
- Tissue Sterilization Process
- Demineralization



# Proprietary & Patented Core Technology Platforms

- **MATRACELL** - Decellularization processes rendering bio-implants acellular without compromising biomechanical or biochemical properties of the allograft bio-implants
- **PAD** - Demineralization processes to provide optimal and maximal osteoinductivity
- **PRESERVON** - Tissue preservation processes which allows storage of bio-implants to be stored at room temperature in a fully hydrated state
- **ALLOWASH XG** - Processes for optimal safety for sterilization of allograft bio-implants
- **MODIFIED GROWTH FACTORS** – Proprietary processes to enhance activity and prevent unwanted side-effects
- **ALLOGRAFT SPONGE** - Proprietary processes for making sponge materials with characteristics desirable for delivery of growth factors, stem and other cell types, DBM and bone marrow aspirates to treat boney and soft tissue sites



# 2009 Strategic Initiatives

## The Institute of Regenerative Medicine at ODU

*Advancing Stem Cell Therapies with donated tissues to aid the healing process.*

- Create novel regenerative therapies
- Initiate collaborations between scientists, clinicians, researchers, technology-related companies
- Will collaborate with military, public health officials and Homeland Security
- Decellularized Skin, Decellularized Cardiovascular tissue, Adipose derived stem cells
- Investigate opportunity for Virginia's Cord Blood Bank and other first responder solutions

# LifeNet Health Institute of Regenerative Medicine

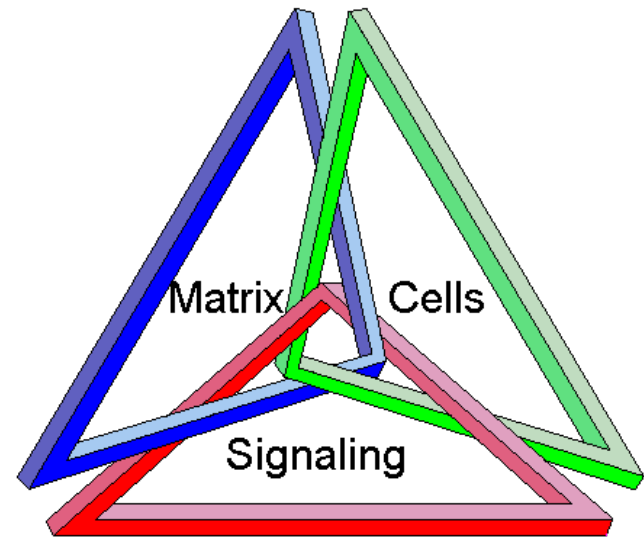
## Institutional Goals:

- Apply the principles of regenerative medicine to enhance the efficacy of LifeNet Health's current tissue-based products.
- Develop novel therapeutic approaches and products derived from or designed to enhance the efficacy of tissue allografts and organ transplantation.

# Regenerative Medicine

Convergence of stem cell therapies, tissue engineering, drug delivery, and existing tissue reconstruction and replacement methods.

- **Biomaterials:** extracellular matrix and biopolymers.
- **Cells:** differentiated and stem cells.
- **Signaling molecules:** growth factors, chemokines, small molecule drugs, etc.



# Challenges and Opportunities

- Best kept secret in Virginia. Opportunity to be a unique biologics company
- Provide cost effective unique medical solutions to the Department of Defense (DoD) and VA
- Put Virginia and Hamptons Roads on the Regenerative Medicine international landscape
- Resources, doing much with less as a not- for-profit
- LifeNet Health has the technologies that can attract federal funding based on innovation, clinical solutions and job creation



**Thank You For your Time**

**LifeNet Health ...**

**Saving lives and Restoring  
Health**